

1. Material Identification and General Information

Essential Information Element	Description	Type of Information	Units	Possible Values	Notes, etc.
Sample ID	sample designation	String			Format recommended is year of entry into database plus a unique sequential record entry during that year, i.e. 2007-1, 2007-2, 2007-3, etc.
Other Sample ID	Other agency ID	String			ID's used by other agencies or laboratories; this could be more than one item
Sample owner	Who owns the sample	String			Agency, department, country, laboratory, etc.
Sample POC owner	POC at owner's agency	String			

Essential Information Element	Description	Type of Information	Units	Possible Values	Notes, etc.
Collection Location	Name of facility	String			
Collection Location Address	Location Address	String			
Collection Location Building Num	Building Identifier	String			
Collection Location Building Floor	Building Identifier	String			
Collection Location Building Room	Building Identifier	String			
Physical description of collection location	Additional location description	String			May be important to know, sample was taken from process, product, etc
Collection date	Date when collection was made	MMDDYYYY			

Essential Information Element	Description	Type of Information	Units	Possible Values	Notes, etc.
Collection time	Time when collection was made	HHMMSS			
Sample type	Acquisition	Multiple selection		process, environmental, Interdicted, compliance, process, standard, component, fuel element, fuel assembly, gas cylinder,	
Sample form	Physical state	Multiple selection		Solid, liquid, powder, metal, gas, trace	Allow for multiple choice since sample may have several forms
Sample Mass	Mass of sample	Decimal	μg, mg, g, kg		
Sample Description	Describe sample	String			Note special features of sample, size, and shape if applicable. For complex shapes, enter details in Material Physical Characteristics Section
Sample Mass uncertainty	Sample mass uncertainty	Decimal	%		<i>Uncertainty representation recommended by data vetting group</i>

Essential Information Element	Description	Type of Information	Units	Possible Values	Notes, etc.
Sample Mass uncertainty Sigma	Sigma level on uncertainty	String		1sigma, 2sigma, 3sigma	<i>A field to identify sigma levels, non-uniform uncertainties, etc</i>
Sample Mass uncertainty type	Uncertainty type	String		GUM, std dev, assigned (historical, Subject Matter Expert, calculated, pooled, analyst)	<i>A field to identify origin of uncertainty estimates</i>
Parent Sample ID	Parent of this sample	String		Another sample ID number	This entry should establish a parent child relationship with this sample as a child. The subsample entries below can be used to establish a series of parent-child relationships with this sample as a parent. The forms are complementary and either or both can be used to establish such a relationship.

Essential Information Element	Description	Type of Information	Units	Possible Values	Notes, etc.
Sub Sample IDs_n	There may be numerous splits	string			See explanation under Parent sample ID above
Subsample Mass_n	Mass of sub-samples	Decimal	μg, mg, g, kg		

Essential Information Element	Description	Type of Information	Units	Possible Values	Notes, etc.
Subsample ass uncertainty_n	Sub-sample mass uncertainty	Decimal	%		<i>Uncertainty representation recommended by data vetting group</i>
Subsample Mass uncertainty sigma_n	Sigma level on uncertainty	String		1sigma, 2sigma, 3sigma	<i>A field to identify sigma levels, non-uniform uncertainties, etc</i>
Subsample Mass uncertainty type_n	Uncertainty type	String		GUM, std dev, assigned (historical, Subject Matter Expert, calculated, pooled, analyst)	<i>A field to identify origin of uncertainty estimates</i>
Comment_n	List of comments	String			
Sample photos	Photograph of sample	Files			Identify where the sample is stored

Essential Information Element	Description	Type of Information	Units	Possible Values	Notes, etc.
Sample documents	Reports & documents of samples	Files			Docs, reports, etc. Note also where the sample documents are stored